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SCURCE

Sprayochnik Metallurga po Tsvetnym Metallam, (Manual for the Metallurgist on Nonferrous Metals), Vol II, Literatury po chernoyi tsvetno metallurgii, Gosizdat, Moscow, 1947.

COPPER SMELTING IN THE USSR

Table 1. Composition of Raw Copper Smelted in Various Plants (%)

Plant	Cu	Fe	$\underline{\mathbf{z_n}}$	<u>s</u>	<u>s10</u> 1	Al203	CaO + MgO
Krasnoural.'sk	15.62	49.86	2.86	28.26	1,18	0.44	,
Kirovograd	19.57	45.20	3.45	25.14	1.22	0.61	
Karabash	24.34	44.35	1.55	22.19	1.48	1.76	0.63
Allaverdi	25.08	41.64	5.73	22 31	1.26	2.10	1.58
Alleverdi	30.00	38,02	2.56	23.65	1.24	2.99	1.71
Allaverdi	35.06	30.09	2.14	25.47	1.56	2.72	2.50
Karsakpaysk	59.03	14,52		22.87	0.36	2.0	1.20

Table 2. Slag Composition in Water-Jacket Ovens of Copper-Smelting Plants (%)

Plent	Type of Smelting	S10 ₂	Fe	FeO	CaO	Az	Cu	<u>s</u>	<u>Zh</u> ∙
Karabash	Pyritic	32-33	Ba0 2.5-3.0	47-49	3.8-4.5	6.7	0.3-0.35	1.5-1.8	2.2-2.6
Karabash	Semi- pyritic	35-36	Bao 2.5-3.0	40-44	5-7	6-7	0.24-0.27	1.5-1.8	2.5-3.7
Kirovo- grad	Pyritic	30-32		40-45	5.8	4.5	0.35-0.4		

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Plant	<u>Cu</u>	≜g	<u>Aa</u>	Pb	<u>B1</u>	<u> 87</u> 3	<u>Aa</u>	<u>Se</u>	70		<u>Jo</u>		8102	CaO	<u> </u>
-											100				
Alaverdi	26.20	5 4.67	••		00	96		2.86			0.34	3	9.10	••	96
Zangerur	9.92	51.28				86	••		e e		0.29		4.80		
Xirovograd	22.33	49.70	4,17	11.10	1.53	3.61	0.61	13.59	2.1		0,42		8.40		
Karabash	26.97	37.49	3.43	8.41	-		80	14.18	0.9	8 .	0.50		4.00		••
Karchach and											4.5				14 4 2 21
Kizovograd	19.3	20,10	2.50	7,20	0,1	0.2	0.1	4.8	0.3	0	0.30		8.50	0.5	0.9

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